



REPLACEMENT SHEET

RLE/RLE MOTIF

CaCAP1 1 MSTESQFNVQGYNIITILKRLAEATSRLEDITIFQEEANKNHYGVDLSLTKGTPKSRVTESSEATSDGKSLESTSFATFSEAPV 85
ScCAP1 1 MPDSKYTMQGYNLVKLLKRLAEATARLEDVTIYQEGYIQNKLEAS---KNNKP-----SDSGADANTNEPSAENAPEVEQ 73
SpCAP1 1 MSDMINIRETGYNFTTILKRLAEATSRLEDLVESGHKPLPNMHRPSR-DSNSQTHNISFNIGTPTAPTIVTSGSPAVASLHDQVA 83
MouseCAP1 1 MADMQNLVERLERAVGRLEAVSHTSDMH-----CGYGDSPS-----K 37
HumanCAP1 1 MADMQNLVERLERAVGRLEAVSHTSDMH-----RGYADSPSK-----A 38

CaCAP1 86 EKS-----KLIVFENFVESYVHPLVETSKKIDSLVGESAQYFEAFVEQKFELEVLVLSQSQPDMTDPALAKA 153
ScCAP1 74 DP-----KCIYAFQSYIGENIDPLVELSGKIDTVLDALQLLKGFGQSQTLFLRAAVRSRKPDPDYSSQTFADS 140
SpCAP1 84 AAISPRNRLTSTSAVEAVPASISAYDEFCSKYLKSKYMELSKKIGGLIAEQSEHVEKAFNLLRQVLSVALKAKQKPDMSPELLEF 168
MouseCAP1 38 GAV-----PYVQAFDLSLLANPVAEYLKMSKEIGGDVQKHAEMVHTGLKLERALLATASQCQQP--AGNKLSDL 103
HumanCAP1 39 GAA-----PYVQAFDLSLLAGPVAEYLKISKEIGGDVQKHAEMVHTGLKLERALLVITASQCQQP--AENKLSDL 104

CaCAP1 154 LEPNNAKCTKINELKDSNRKSPFFNHLSTFSESNAVFYWGIP-TPVSYITDTKDTVKFWSDRVLKEYKTKDQVHVWVKQTLVS 237
ScCAP1 141 LRPINENIILKGLQKESNRQSKYFAYLSALSEGAPLFSWVAVD-TPVSMVTDKDAAQFWTNRIILKEYRESDEPNVAVWVKFLAS 224
SpCAP1 169 LKPIQSELLTITNIRDEHRTAPEFNQLSTVMSGISILGWVTVETPTLSFMSEMKDSSQFYANRVKMEFKGKDDILQIEWVRSYLT 253
MouseCAP1 104 LAPISEQIQEVITFREKNRGSKFFNHL SAVSESIQALGWALAAKPGPFVKEMNDAAAMFYTNRVLKEYRDVDRKHVDWVRAYLSI 188
HumanCAP1 105 LAPISEQIQEVITFREKNRGSKFFNHL SAVSESIQALGWAVAMAPKPGPYVKEMNDAAAMFYTNRVLKEYKVDKDKHVDWVKAYLSI 189

POLYPROLINE REGION

CaCAP1 238 FDELKNYVKEYHTTGVAWNPKGKPPFAEVVSQOTESAAKNSS--SASGSAGGAAPPPPPPPPPATFFDDTEKDSNPSPAS-GGINA 320
ScCAP1 225 FDNLKAYIKEYHTTGVSWKKGDMDFADAMAQSTKNTGATSSPSPASATAAPAPPPPPPPAPPASVFEISNDTPATSSDANKGGIGA 309
SpCAP1 254 LTELITYVVKTHFKTGLTWSTKQDAVPLKTALANLSASKTQAPSSGDSANGGLPPPPPPPPPPPSNDFWKDSNEP-APADNK-GDMGA 336
MouseCAP1 189 WTELQAYIKEFHFTTGLAWSKTG-----PVAKELSGLPSPSVGSGPPPPPPPPPPPIPTS-----SGSDDS-ASRSA 255
HumanCAP1 190 WTELQAYIKEFHFTTGLAWSKTG-----PVAKELSGLPSPSGSAGSGPPPPPPPPPPPVSTST-----SGSDES-ASRSA 256

SH3 BINDING MOTIFS

CaCAP1 321 VFAELNQGANITSGLKKVKDKSEMTHKNPPELRKQPPVAPK--KPAPPKPKSSLGG-VSSAPVKKPAKKELIDGKWIIONFTKAD 402
ScCAP1 310 VFAELNQGANITGKLKKVKDKSQQTHKNPELRQSSTVSTGSKSGPPPRPK--KP-----STLKTKRPPRKELVG-NKWFIEYEN-- 386
SpCAP1 337 VFAEINKGEGITSGLRKKVKDKSEMTHKNPENLR-----KTGTPGPKPKIKSSAPSKPAETAAPVKPPRIELEN-TKWFEVENQVD-- 412
MouseCAP1 256 LFAQINQGESITHALKHVSDDMKTHKNPALKAQSGPVRSGPKPFSAPKPQ-TSPS-PKPATKKEPALLELEG-KKWRVENQEN-- 335
HumanCAP1 257 LFAQINQGESITHALKHVSDDMKTHKNPALKAQSGPVRSGPKPFSAPKPQ-TSPS-PKRATKKEPALLELEG-KKWRVENQEN-- 336

FIG. 3A

CaCAP1	403	ISDLSPITIEVEMHQSVFIGNCSDVTIQLKGGKANAVSVSETKNVALVIDSLISGVDVIKSYKFGIQVLGLVPMLSIDKSDEGTIY	487
ScCAP1	387	--ETESLVIDANKDESIFIGKCSQVLVQIKGVNAISLSETESCSVLDSSISGMDVIKSNKFGIQVNHSLPQISIDKSDGGNIY	469
SpCAP1	413	--NHSIVLDSVELNHSVQIFGCSNCTIIIKGKLNTVSMCNCKRTSVVVDTLVAADFIAKCSNFGCQVMNHVPMIVIDQCDGGSIIY	495
MouseCAP1	336	--VSNLVIDDTELKQVAYIYKCVNTTLQIKGKINSITVDNCKKGLGVFDDVVGIVEIINSRDVKVQVMGKVPTISINKTDGCHAY	418
HumanCAP1	337	--VSNLVIEDTELKQVAYIYKCVNTTLQIKGKINSITVDNCKKGLGVFDDVVGIVEIINSKDKVKVQVMGKVPTISINKTDGCHAY	419
CaCAP1	488	LSQESIDNDSQVFTSSTTALNINAPK-ENDDYEELAVPEQFVSKVNVN-GKLVQTQIVEHAG	545
ScCAP1	470	LSKESLN--TEIYTSCTAINVNLPIGEDDDYVEFPIPEQMKSFSAD-GKFSAVFEHAG	526
SpCAP1	496	LSKSSLS--SEVVTSKSTSLNINVPN-EEGDYAERAVPEQIKHKVNEKGELVSEIVRHE	551
MouseCAP1	419	LSKNSLD--CEIVSAKSSEMNVLIPT-EGGDFNEFPVPEQFKTLWNG-QKLVTTVTTEIAG	474
HumanCAP1	420	LSKNSLD--CEIVSAKSSEMNVLIPT-EGGDFNEFPVPEQFKTLWNG-QKLVTTVTTEIAG	475

FIG. 3B

REPLACEMENT SHEET

CaPDE2	335	NPIQTLGLLVAALGHADVGHPGT	TNDFMIKFSAPTALLY	372
ScPDE2	288	NPVQTLLLCMAAIGHDVGHPGT	NNQLLCNCESEVAQNF	325
HuPDE2A3	682	EDIEIFALFISCMCHDL	HRGTNNSFQVASKSVLAALY	719
CaPDE2	373	NDR-SVLESYHASLFINKVLR	ICWPDLLTCTIEEKSEL	409
ScPDE2	326	KNV-SILENFHRELFQ-QLL	SEHWP--LKLSISKKK--	357
HuPDE2A3	720	SSEGSMERHHFAQAI-AILN	THGCN-IFDHFSRKDYQ	755
CaPDE2	410	TIRSLIISSILATDMGEHNE	YVNRLKSFKTHNEILNHD	447
ScPDE2	358	--FDFISEAILATDMALHSQ	YEDRLMHENPMKQIT---	390
HuPDE2A3	756	RMLDLMRDIIILATDLAHL	RIFKDLQKMAEVGYDRNNK	793
CaPDE2	448	NTVKLIISALLIKCADISNV	TRPLRVSAQWAMVLSREF	484
ScPDE2	391	-----LISLIKAADISNV	TRTLSISARWAYLITLFEF	422
HuPDE2A3	794	QHHRLLLCLLMTSCDLS	QTKGWKTTRKIAELIYKEF	830

FIG. 13